TABLE 2.16 SOUTH BELTWAY PRELIMINARY COST ESTIMATES 1996 DOLLARS

	MIDDLE				
ITEM	QUANTITY	(ENGLISH)	UNIT PRICE	(ENGLISH)	AMOUNT *
DIAMOND INTERCHANGE	3 ea		\$3,25	\$9,762,000	
structure embankment ramps total each	474 000 cu m	(13,200 sq ft) (620,000 cu yd) (23,600 sq yd)	\$2.60	(\$90) (\$2) (\$35)	\$1,188,000 \$1,240,000 <u>\$826,000</u> \$3,254,000
DIRECTIONAL INTERCHANGE					
US-77/South Beltway structure (4) embankment ramps total each	948 000 cu m	(56,550 sq ft) (1,240,000 cu yd) (133,800 sq yd)	\$2.60	(\$90) (\$2) (\$35)	\$5,089,500 \$2,480,000 <u>\$4,683,000</u> \$12,252,500
South Beltway/N-2 structure (3) embankment ramps total each	711 000 cu m	(38,350 sq ft) (930,000 cu yd) (122,100 sq yd)	\$2.60	(\$90) (\$2) (\$35)	\$3,451,500 \$1,860,000 <u>\$4,273,500</u> \$9,585,000
ROADWAY CROSSING	3 €	а	\$1,17	0,000	\$3,510,000
structure embankment total each		(9,400 sq ft) (162,000 cu yd)	\$970 \$2.60	(\$90) (\$2)	\$846,000 <u>\$324,000</u> \$1,170,000
RAILROAD CROSSING	1 €	ea	\$1,93	4,000	\$1,934,000
structure embankment total each		(12,600 sq ft) (400,000 cu yd)	\$970 \$2.60	(\$90) (\$2)	\$1,134,000 <u>\$800,000</u> \$1,934,000
BIKE TRAIL CROSSING			\$580	,000	\$0
structure embankment total each		(4,000 sq ft) (110,000 cu yd)	\$970 \$2.60	(\$90) (\$2)	\$360,000 <u>\$220,000</u> \$580,000
MINOR STREAM CROSSING	5 ea		\$756	5,000	\$3,780,000
structure embankment total each	780 sq m 0 cu m	(8,400 sq ft) (cu yd)	\$970 \$2.60	(\$90) (\$2)	\$756,000 <u>\$0</u> \$756,000
MAJOR STREAM/RR CROSSING					
#1-Salt Creek structure	1 e 3 900 sq m	ea (42,000 sq ft)	\$3,78 \$970	0,000 (\$90)	\$3,780,000 \$3,780,000
#2-UP RR structure embankment total each		ea (37,800 sq ft) (400,000 cu yd)	\$4,20 \$970 \$2.60	(\$90)	\$4,202,000 \$3,402,000 <u>\$800,000</u> \$4,202,000
#3-BN RR structure embankment total each		ea (37,800 sq ft) (400,000 cu yd)		2,000 (\$90) (\$2)	\$4,202,000 \$3,402,000 <u>\$800,000</u> \$4,202,000
#4 structure	1 e 2 107 sq m	ea (22,680 sq ft)	\$2,04 \$970	1,200 (\$90)	\$2,041,200 \$2,041,200
INTERSECTIONS, AT GRADE PAVEMENT SHOULDERS CONNECTING LINK PAVEMENT EXCAVATION CULVERTS (major) DRAINAGE STRUCTURES	76 250 sq m 95 570 sq m	(198,900 sq yd) (91,200 sq yd) (114,300 sq yd) (1,871,000 cu yd)	\$16 \$30 \$2.60 \$250	(\$35) (\$13) (\$25) (\$2)	\$0 \$6,961,500 \$1,185,600 \$2,857,500 \$3,742,000 \$250,000 \$958,500
SUBTOTAL CONTINGENCIES TOTAL CONSTRUCTION COST			20	%	\$71,004,000 <u>\$14,201,000</u> \$85,205,000
ENGINEERING DESIGN CONSTRUCTION ADMIN HOUSES/COMMERCIAL RIGHT-OF-WAY	6 ε 295 ha	ea (730 ac)	6° 8° \$500 \$25,000	%	\$5,112,000 \$6,816,000 \$3,000,000 \$7,300,000
TOTAL					\$107,433,000

^{*} extended costs are based on English quantity and unit prices